

**PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
**SOMA C. SIMON**  
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**CORPORATE INTELLECTUAL PROPERTY, UW2220**  
**709 SWEDELAND ROAD, P.O. BOX 1539**  
**KING OF PRUSSIA, PA 19406-0939**

**PCT**

**NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION**

(PCT Rule 44.1)

Date of mailing (day/month/year)	<b>17 FEB 2005</b>
<b>FOR FURTHER ACTION</b>	See paragraphs 1 and 4 below
International filing date (day/month/year)	17 March 2004 (17.03.2004)

Applicant's or agent's file reference

PU60789

International application No.

PCT/US04/08032

Applicant  
**GLAXO GROUP LIMITED**

1.  The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
- Filing of amendments and statement under Article 19:**  
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):
- When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.
- Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35
- For more detailed instructions, see the notes on the accompanying sheet.
2.  The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. **Reminders**
- Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.
- The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.
- Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.
- In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US  
 Mail Stop PCT, Attn: ISA/US  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 Facsimile No. (703) 305-3230

Authorized officer

Brenda Coleman

Telephone No. 571-272-1600

*[Signature]*  
*Brenda Coleman*  
*571-272-1600*  
*(See notes on accompanying sheet)*

Form PCT/ISA/220 (January 2004)

**PATENT COOPERATION TREATY**  
**PCT**

## **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PU60789	<b>FOR FURTHER ACTION</b> as well as, where applicable, item 5 below.	see Form PCT/ISA/220
International application No. PCT/US04/08032	International filing date (day/month/year) 17 March 2004 (17.03.2004)	(Earliest) Priority Date (day/month/year)
Applicant <b>GLAXO GROUP LIMITED</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

**It is also accompanied by a copy of each prior art document cited in this report.**



Form PCT/ISA/210 (first sheet) (January 2004)

**INTERNATIONAL SEARCH REPORT**

International application No. PCT/US04/08032-
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A61K 31/55; A61P 11/00; C07D 223/16 US CL : 514/217.01; 540/594 According to International Patent Classification (IPC) or to both national classification and IPC													
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 514/217.01; 540/594													
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched													
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE													
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 10%;">Category *</th> <th style="text-align: left;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="text-align: left;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>AUSTIN et al., Novel 2,3,4,5-Tetrahydro-1H-3-benzazepines with High Affinity and Selectivity for the Dopamine D<sub>sub.3</sub> Receptor, Bioorganic &amp; Medicinal Chemistry Letters, 20 November 2000, Vol. 10, No. 22, pages 2553-2555, especially pages 2554 and 2555.</td> <td>1-5</td> </tr> <tr> <td>X</td> <td>MACDONALD et al., Design and Synthesis of trans-3-(2-(4-((3-(5-Methyl-1,2,4-oxadiazolyl)-phenyl)carboxamido)cyclohexyl)ethyl)-7-methylsulfonyl-2,3,4,5-tetrahydro-1H-3-benzazepine (SB-414796): A Potent and Selective Dopamine D<sub>sub.3</sub> Receptor Antagonist, Journal of Medicinal Chemistry, 06 November 2003, Vol. 46, No. 23, pages 4952-4964, especially pages 4956 and 4957.</td> <td>1-5</td> </tr> <tr> <td>X</td> <td>U.S. 6,605,607 B1 (HADLEY et al.) 12 August, 2003, see Table 1.</td> <td>1-5</td> </tr> </tbody> </table>		Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	AUSTIN et al., Novel 2,3,4,5-Tetrahydro-1H-3-benzazepines with High Affinity and Selectivity for the Dopamine D <sub>sub.3</sub> Receptor, Bioorganic & Medicinal Chemistry Letters, 20 November 2000, Vol. 10, No. 22, pages 2553-2555, especially pages 2554 and 2555.	1-5	X	MACDONALD et al., Design and Synthesis of trans-3-(2-(4-((3-(5-Methyl-1,2,4-oxadiazolyl)-phenyl)carboxamido)cyclohexyl)ethyl)-7-methylsulfonyl-2,3,4,5-tetrahydro-1H-3-benzazepine (SB-414796): A Potent and Selective Dopamine D <sub>sub.3</sub> Receptor Antagonist, Journal of Medicinal Chemistry, 06 November 2003, Vol. 46, No. 23, pages 4952-4964, especially pages 4956 and 4957.	1-5	X	U.S. 6,605,607 B1 (HADLEY et al.) 12 August, 2003, see Table 1.	1-5
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>													
See patent family annex.													
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed													
Date of the actual completion of the international search  24 January 2005 (24.01.2005)	Date of mailing of the international search report  <b>17 FEB 2005</b>												
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer  Brenda Coleman Telephone No. 571-272-1600												

Form PCT/ISA/210 (second sheet) (January 2004)